

WEST Search History for Application 10553546

Creation Date: 2009092815:46

(polymer or resin) near10 (blend\$3 or mixture)PGPB, USPT, USOC, EPAB, JPAB, DWPI,
TDBD ADJ 02-09-2009

molecular weightPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

\$4vinylpyrrolidone or pvpPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

\$4ethylene oxide or peoPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

\$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylatePGPB, USPT, USOC, EPAB,
JPAB, DWPI, TDBD ADJ 02-09-2009

diluent or reactive monomerPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009
acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vpPGPB, USPT, USOC, EPAB,

JPAB, DWPI, TDBD ADJ 02-09-2009

hydrophilic near5 (monomer or diluent)PGPB, USPT, USOC, EPAB, JPAB, DWPI,
TDBD ADJ 02-09-2009

ethylene glycol dimethacrylatePGPB, USPT, USOC, EPAB, JPAB, DWPI,
TDBD ADJ 02-09-2009

benzophenone or dichlorobenzophenone or xanthonePGPB, USPT, USOC, EPAB, JPAB,
DWPI, TDBD ADJ 02-09-2009

coatingPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

high molecular weightPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

low molecular weightPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

polyvinylpyrrolidone or polyvinyl pyrrolidonePGPB, USPT, USOC, EPAB, JPAB, DWPI,
TDBD ADJ 02-09-2009

(radiation or UV) near5 cur\$4PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009
unsaturated monomerPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

acrylic acidPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

oligomer or prepolymerPGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

(thermal or heat) near5 cur\$4PGPB, USPT, USOC, EPAB, JPAB, DWPI,
TDBD ADJ 02-09-2009

(polyvinylpyrrolidone or polyvinyl pyrrolidone) or (\$4vinylpyrrolidone or pvp) or (\$4ethylene
oxide or peo) or (\$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate)PGPB,
USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

(diluent or reactive monomer) or (hydrophilic near5 (monomer or diluent))PGPB, USPT,
USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

(acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp) or (ethylene glycol
dimethacrylate)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

((polymer or resin) near10 (blend\$3 or mixture)) and (diluent or reactive monomer or
hydrophilic near5 (monomer or diluent)) and ((radiation or UV) near5 cur\$4)PGPB, USPT,
USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

((polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or
hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4) and

(polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene
oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate) and (acrylic
acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate
)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

((polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or
hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and

polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene

oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate) and (coating)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

((polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating) and (benzophenone or dichlorobenzophenone or xanthone)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

((polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating and benzophenone or dichlorobenzophenone or xanthone) and (molecular weight)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

((polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating and benzophenone or dichlorobenzophenone or xanthone and molecular weight) and 522/\$.ccls.PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

(ambient or room) near5 temperaturePGPB, USPT, USOC, EPAB, JPAB, DWPI,
TDBD ADJ 02-09-2009

((ambient or room) near5 temperature) same cur\$4PGPB, USPT, USOC, EPAB, JPAB, DWPI,
TDBD ADJ 02-09-2009

((ambient or room) near5 temperature same cur\$4) and ((polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating and benzophenone or dichlorobenzophenone or xanthone and molecular weight and 522/\$.ccls.)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

((ambient or room) near5 temperature same cur\$4 and (polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating and benzophenone or dichlorobenzophenone or xanthone and molecular weight and 522/\$.ccls.)
@ad<20030417PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

(coating) and ((radiation or UV) near5 cur\$4)PGPB, USPT, USOC, EPAB, JPAB, DWPI,
TDBD ADJ 02-09-2009

((radiation or UV) near5 cur\$4) .ab.PGPB, USPT, USOC, EPAB, JPAB, DWPI,
TDBD ADJ 02-09-2009

((radiation or UV) near5 cur\$4 .ab.) and ((ambient or room) near5 temperature same cur\$4 and (polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and

polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating and benzophenone or dichlorobenzophenone or xanthone and molecular weight and 522\$/ccls. and @ad<20030417)PGPB, USPT, USOC, EPAB, JPAB, DWPI,

TDBD ADJ 02-09-2009

(polyvinylpyrrolidone or polyvinyl pyrrolidone) and (\$4vinylpyrrolidone or pvp)PGPB,
USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

(polyvinylpyrrolidone or polyvinyl pyrrolidone and \$4vinylpyrrolidone or pvp) and ((radiation or UV) near5 cur\$4 .ab. and (ambient or room) near5 temperature same cur\$4 and (polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating and benzophenone or dichlorobenzophenone or xanthone and molecular weight and 522\$/ccls. and @ad<20030417)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

((ambient or room) near5 temperature same cur\$4 and (polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating and benzophenone or dichlorobenzophenone or xanthone and molecular weight and 522\$/ccls. and @ad<20030417) and (polyvinylpyrrolidone or polyvinyl pyrrolidone and \$4vinylpyrrolidone or pvp)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

((ambient or room) near5 temperature same cur\$4 and (polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating and benzophenone or dichlorobenzophenone or xanthone and molecular weight and 522\$/ccls. and @ad<20030417 and polyvinylpyrrolidone or polyvinyl pyrrolidone and \$4vinylpyrrolidone or pvp) not (polyvinylpyrrolidone or polyvinyl pyrrolidone and \$4vinylpyrrolidone or pvp and (radiation or UV) near5 cur\$4 .ab. and (ambient or room) near5 temperature same cur\$4 and (polymer or resin) near10 (blend\$3 or mixture) and diluent or reactive monomer or hydrophilic near5 (monomer or diluent) and (radiation or UV) near5 cur\$4 and polyvinylpyrrolidone or polyvinyl pyrrolidone or \$4vinylpyrrolidone or pvp or \$4ethylene oxide or peo or \$4hydroxyethyl methacrylate or \$4hydroxypropyl methacrylate and acrylic acid or \$3vinyl\$2pyrrolidone or \$4vinylpyrrolidone or vp or ethylene glycol dimethacrylate and coating and benzophenone or dichlorobenzophenone or xanthone and molecular weight and 522\$/ccls. and @ad<20030417)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ 02-09-2009

TDBD ADJ 02-09-2009

wo-0248202-\$did.DWPI ADJ YES 02-09-2009

Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
radiation near5 cur\$4	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009
photocurable	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009
uv near5 cur\$4	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009
(uv near5 cur\$4) or (photocurable) or (radiation near5 cur\$4)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009
coating	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009
prepolymer or oligomer or macromer or macromonomer	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009
acrylate\$1 or methacrylate\$1 or \$4urethane or polyether	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009
molecular weight	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009
		ADJ	YES		09-28-2009

(molecular weight) same (acrylate\$1 or methacrylate\$1 or \$4urethane or polyether) same (photocurable)	PGPB, USPT, EPAB, JPAB, DWPI			
(molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same photocurable) and (uv near5 cur\$4 or photocurable or radiation near5 cur\$4) and (coating)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4) .ab.	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4 .ab.) and (molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same photocurable and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 and coating)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
binder	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
high molecular weight	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(high molecular weight) same (binder)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(high molecular weight same binder) and (uv near5 cur\$4 or photocurable or radiation near5 cur\$4 .ab. and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same photocurable and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 and coating)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
100, 000	PGPB, USPT, EPAB, JPAB,	ADJ	YES	09-28-2009

	DWPI			
(molecular weight) same (acrylate\$1 or methacrylate\$1 or \$4urethane or polyether) same (prepolymer or oligomer or macromer or macromonomer) same (100, 000)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4) same (coating)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating) and (molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same prepolymer or oligomer or macromer or macromonomer same 100, 000)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating) .ab.	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating .ab.) and (uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same prepolymer or oligomer or macromer or macromonomer same 100, 000)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating .ab. and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same prepolymer or oligomer or macromer or macromonomer same 100, 000) not (high molecular weight same binder and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 .ab. and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same photocurable and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 and coating)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating .ab. and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES	09-28-2009

prepolymer or oligomer or macromer or macromonomer same 100, 000 not high molecular weight same binder and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 .ab. and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same photocurable and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 and coating) and @ ad<20030417					
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating .ab. and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same prepolymer or oligomer or macromer or macromonomer same 100, 000 not high molecular weight same binder and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 .ab. and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same photocurable and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 and coating) and @ad<20030417	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009
(uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating .ab. and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 same coating and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same prepolymer or oligomer or macromer or macromonomer same 100, 000 not high molecular weight same binder and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 .ab. and molecular weight same acrylate\$1 or methacrylate\$1 or \$4urethane or polyether same photocurable and uv near5 cur\$4 or photocurable or radiation near5 cur\$4 and coating) and (binder)	PGPB, USPT, EPAB, JPAB, DWPI	ADJ	YES		09-28-2009